

IN THE CLAIMS

Please amend claims 5, 6, 9-12 and 51 as follows:

1. (PREVIOUSLY AMENDED) An isolated human inflammatory breast cancer xenograft, wherein the xenograft grows within lymphatic and blood vessel channels of an immunocompromised mouse and comprises the following properties:

- i) does not express estrogen receptor and progesterone receptor; and
- ii) expresses P53, EGFR, MUC1 and E-cadherin.

2. (PREVIOUSLY AMENDED) The xenograft of claim 1, wherein the level of E-cadherin expressed by the xenograft is at least two-fold greater than the level of E-cadherin expressed by a noninflammatory breast cancer xenograft.

3. (PREVIOUSLY AMENDED) The xenograft of claim 2, wherein the xenograft expresses  $\alpha$ -catenin and  $\beta$ -catenin and the levels of  $\alpha$ -catenin and  $\beta$ -catenin expressed by the xenograft are at least two-fold greater than the levels of  $\alpha$ -catenin and  $\beta$ -catenin expressed by a noninflammatory breast cancer xenograft.

4. (PREVIOUSLY AMENDED) The xenograft of claim 3, wherein the xenograft does not express Hcr-2/neu.

5. (CURRENTLY AMENDED) ~~[[An]]~~The isolated human inflammatory breast carcinoma xenograft of claim 1, wherein the isolated human inflammatory breast carcinoma xenograft is designated MARY-X and has~~having~~ American Type Culture Collection Accession Number PTA-2737.

6. (CURRENTLY AMENDED) An isolated in vitro culture of ~~[[a]]~~the human inflammatory breast cancer xenograft of claim 1, wherein the xenograft grows as a spheroid~~and comprises the following properties:~~

- ~~i) does not express estrogen receptor and progesterone receptor; and~~

ii) ~~expresses P53, EGFR, MUC1 and E-cadherin.~~

7. (ORIGINAL) The in vitro culture of a human inflammatory breast cancer xenograft of claim 6, wherein the spheroid can attach to a cell monolayer.

8. (ORIGINAL) The in vitro culture of a human inflammatory breast cancer xenograft of claim 7, wherein the spheroid disadheres from the cell monolayer when exposed to a culture media containing absent  $\text{Ca}^{++}$  or anti-E-cadherin antibody.

9. (CURRENTLY AMENDED) A method of generating the xenograft of claim 1 comprising the steps of:

(a) obtaining a breast sample from a patient;

(b) identifying cells in the sample as an inflammatory carcinoma exhibiting florid invasion of dermal lymphatics and which comprises the following properties:

i) do not express estrogen receptor and progesterone receptor; and

ii) express P53, EGFR, MUC1 and E-cadherin;

(c) implanting the sample into an immunocompromised mouse; and

(d) identifying the xenograft growing in the immunocompromised mouse host,

so that an isolated human inflammatory breast cancer xenograft is generated, wherein the xenograft grows within lymphatic and blood vessel channels of an immunocompromised mouse and comprises the following properties:

i) does not express estrogen receptor and progesterone receptor; and

ii) expresses P53, EGFR, MUC1 and E-cadherin.

10. (CURRENTLY AMENDED) A ~~murine mouse~~ model for inflammatory breast cancer comprising an immunocompromised mouse inoculated with a human inflammatory breast cancer

xenograft, wherein the xenograft grows within lymphatic and blood vessel channels and has the following properties:

- i) does not express estrogen receptor and progesterone receptor; and
- ii) expresses P53, EGFR, MUC1 and E-cadherin.

11. (CURRENTLY AMENDED) The ~~animal~~mouse model according to claim 10, wherein the immunocompromised mouse is a nude mouse.

12. (CURRENTLY AMENDED) The ~~animal~~mouse model according to claim 10, wherein the human inflammatory breast cancer xenograft, is the xenograft designated MARY-X and having American Type Culture Collection Accession Number PTA-2737.

13-27. CANCELLED

28. (PREVIOUSLY PRESENTED) A method of identifying a molecule whose expression is modulated in inflammatory breast cancer comprising the steps of:

(a) providing a human inflammatory breast cancer xenograft, wherein the xenograft grows within lymphatic and blood vessel channels of an immunocompromised mouse and has the following properties:

- i) does not express estrogen receptor and progesterone receptor; and
- ii) expresses P53, EGFR, MUC1 and E-cadherin;

(b) determining the level of expression of at least one molecule in the human inflammatory breast cancer xenograft; and

(c) comparing the level expression of the molecule in the human inflammatory breast cancer xenograft to the level of expression of the molecule in a cell having characteristics which are distinct from the human inflammatory breast cancer xenograft,

so that a molecule whose expression is modulated in inflammatory breast cancer is identified.

29. (ORIGINAL) The method according to claim 28, wherein the level of expression of the molecule of the inflammatory breast cancer xenograft is determined by a method selected from the group consisting of: Northern Blotting, Southern Blotting, Western Blotting and polymerase chain reaction.

30-49. CANCELLED

50. (PREVIOUSLY PRESENTED) The in vitro culture of a human inflammatory breast cancer xenograft of claim 6, wherein the xenograft is the xenograft having American Type Culture Collection Accession Number PTA-2736.

51. (CURRENTLY AMENDED) The ~~non-human animal~~ mouse model for inflammatory breast cancer of claim 10, wherein the xenograft is the xenograft having American Type Culture Collection Accession Number PTA-2737.

52. (PREVIOUSLY PRESENTED) The method of identifying a molecule whose expression is modulated in inflammatory breast cancer of claim 28, wherein the xenograft is the xenograft having American Type Culture Collection Accession Number PTA-2737.